CLAIMS

- 1. Recombinant Human Mannan-Binding Proteins (rhMBP) which offers the specific peaks at the molecular weight of $1,000\sim1,300$ kDa when it is applied to 280nm absorbance in Gel-Filtration Chromatography.
- 2. Recombinant Human Mannan-Binding Proteins (rhMBP) according to Claim 1 wherein said molecular weight is 1.150kDa.
- 3. Recombinant Human Mannan-Binding Proteins (rhMBP) which offers the specific peaks at the molecular weight of $200 \sim 400$ kDa when it is applied to 280nm absorbance in Gel-Filtration Chromatography.
- 4. Recombinant Human Mannan-Binding Proteins (rhMBP) according to Claim 3 wherein said molecular weight is 300kDa.
- 5. Recombinant Human Mannan-Binding Proteins (rhMBP) which offers the specific peaks at the molecular weight of 1,000~1,300 kDa and 200~400 kDa when it is applied to 280nm absorbance in Gel-Filtration Chromatography.

- 6. A method for producing Recombinant Human Mannan-Binding Proteins (rhMBP) comprising the following steps of:
- (a) constructing the expression vector pNOW1-hMBP by inserting cDNA corresponding to 66bp~812bp of cDNA from native Human Mannan-Binding Proteins (native MBP) into plasmid pNOW1;
- (b) preparing transformants by introducing said expression vector pNOWl-hMBP into Chinese Hamster Ovary (CHO) cells which are lack of dihydrofolate reductase (dhfr⁻);
- (c) obtaining neomycin resistance cells by culturing said transformants in a culture medium containing neomycin;
- (d) obtaining methotrexate (MTX) resistance cells by culturing said neomycin resistance cells in a culture medium containing MTX; and
- (e) collecting Recombinant Human Mannan-Binding Proteins (rhMBP) from the obtained MTX resistance cells.
- 7. The method for producing Recombinant Human Mannan-Binding Proteins (rhMBP) according to Claim 6 wherein said Recombinant Human Mannan-Binding Proteins (rhMBP) offers the specific peaks at the molecular weight of 1,000~1,300 kDa when it is applied to 280nm absorbance in Gel-Filtration Chromatography.

- 8. The method for producing Recombinant Human Mannan-Binding Proteins (rhMBP) according to Claim 6 wherein said Recombinant Human Mannan-Binding Proteins (rhMBP) offers the specific peaks at the molecular weight of 200~400 kDa when it is applied to 280nm absorbance in Gel-Filtration Chromatography.
- 9. The method for producing Recombinant Human Mannan-Binding Proteins (rhMBP) according to Claim 6 wherein said Recombinant Human Mannan-Binding Proteins (rhMBP) offers the specific peaks at the molecular weight of $1.000 \sim 1,300$ kDa and $200 \sim 400$ kDa when it is applied to 280nm absorbance in Gel-Filtration Chromatography.
- 10. The method for producing Recombinant Human Mannan-Binding Proteins (rhMBP) according to any of Claims 6-9 wherein said Recombinant Human Mannan-Binding Proteins (rhMBP) have activities to inhibit Hemagglutination by Influenza Viruses.
- 11. Recombinant Human Mannan-Binding Proteins (rhMBP) which is obtainable by the method according to any of Claims 6-10.